



2014 BSEE Domestic and International Standards Workshop

January 28 - 29, 2014

Doubletree by Hilton Hotel
300 Canal Street
New Orleans, LA 70130
Tel: 504-581-1300

Speaker and Moderator Bios

1. **Kenneth E. Arnold**, PE, NAE President, K Arnold Consulting, Inc.

Kenneth E. Arnold has almost fifty years of industry experience with 16 years at Shell Oil Company. He founded Paragon Engineering Services in 1980 which was purchased by AMEC in 2005. In September 2007, Ken retired from AMEC and formed K Arnold Consulting, Inc. (KACI). In 2010 he joined WorleyParsons as a part-time Senior Technical Advisor while maintaining KACI for independent consulting work.

Ken is co-author of two textbooks and author of over 50 technical articles on safety management, project management and facilities design. He has been chosen as an SPE distinguished lecturer three times. He has twice served on the Board of SPE, and is currently Vice President of The Academy of Medicine, Engineering and Science of Texas. He was a former member of the Marine Board of the National Research Council and Chair of the National Research Council Committee which prepared a report for the Department of the Interior on "Evaluating the Effectiveness of Safety and Environmental Management Systems for Offshore Operations".

Ken has taught facilities engineering at the University of Houston as well as for several oil companies. He is a registered professional engineer and serves on the advisory board of the engineering schools of Tulane University and Cornell University and the Petroleum Engineering Advisory Board of University of Houston.

2. **Mike Briggs**, Director of Quality for Cameron Corporation

Mr. Briggs has a BS in Mechanical Engineering from Louisiana Tech University and 25 years of experience in the design and manufacture of Oil and Gas equipment. While Mr. Briggs' education is in Engineering, he has spent most of my career involved in Quality to some degree or another. Mr. Briggs has been with Cameron almost 15 years and all of this time has been in Quality. While at Cameron Mr. Briggs has been very actively involved in in API Standards development and recently chaired the workgroup that developed the Q2 Standard and am currently chairing the workgroup developing the API Life Cycle Management Standard. In addition to these documents, Mr. Briggs is actively involved with several other API subcommittees such as SC6, SC18 and SC20.

3. **Simon Brown**, Principal Inspector for HSE Hazardous Installations Directorate, Energy Division (Offshore)

Simon joined the Health & Safety Executive (HSE) in 1992 from a background as a design engineer and technical manager in the electronics and communications industry. As an HSE specialist inspector he has worked with a broad range of industries including general manufacturing, oil and gas, petrochemicals and as an inspector for the Channel Tunnel Safety Authority. He has had a leading role in the development of international standards for electrical and electronic safety-related systems. For the past 8 years he has managed HSE's team of electrical and control specialists undertaking safety case assessments, inspections and incident investigations on all offshore oil and gas installations and mobiles across the UKCS. He also leads the offshore International Regulator's Forum sub-group on standards.

4. **LT Kyle Carter**

LT Carter received his commission in the U.S. Coast Guard in 2007, graduating from the U.S. Coast Guard Academy with a Bachelor of Science degree in Naval Architecture and Marine Engineering.

LT Carter's first assignment was as a Student Engineer and Damage Control Assistant aboard USCGC GALLATIN homeported in Charleston, South Carolina.

In 2009, LT Carter was assigned to Marine Safety Unit Port Arthur as a Marine Inspector. He served as the Outer Continental Shelf inspections chief, responsible for regulatory compliance of mobile offshore drilling units and offshore platforms in the Gulf of Mexico.

In 2012, LT Carter began pursuing a Master of Science in Petroleum Engineering from the University of Texas at Austin as part of the Coast Guard Post-Graduate Marine Engineering Program. His research is focused on remote real-time data monitoring for improved safety regulation in deepwater drilling and completion operations.

5. **Elmer Peter Danenberger III Elmer "Bud" Danenberger, Consultant**

Mr. Danenberger is currently a consultant specializing in offshore safety, pollution prevention and regulatory policy. He has worked for the National Commission on the BP Deepwater Horizon Oil Spill, oil companies, and government agencies. He was recently appointed to the National Research Council's Marine Board, which provides guidance on marine technology and policy issues.

During his 38-year career with the Department of the Interior's offshore program, he served as an engineer in the Gulf of Mexico regional office, Chief of the Technical Advisory Section at U.S. Geological Survey headquarters, District Supervisor for Minerals Management Service (MMS) field offices in Hyannis, Massachusetts and Santa Maria, California, and Chief of the Engineering and Operations Division at MMS Headquarters. For the last five years of his career prior to retiring in January 2010, he served as Chief, Offshore Regulatory Programs, with responsibilities for safety and pollution-prevention research, investigations, regulations and standards, and inspection and enforcement programs. He was inducted into the Offshore Energy Center's Hall of Fame as a Technology Pioneer for Health, Safety, and the Environment.

Mr. Danenberger earned a B.S. degree in Petroleum and Natural Gas Engineering and a Masters degree in Environmental Pollution Control, both from Pennsylvania State University.

6. **Mark Denkowski, Vice President Accreditation & Credentialing for IADC**

Mark Denkowski serves as the IADC Vice President Accreditation & Credentialing. In this capacity, he directs all operations of IADC accreditation programs, program development and implementation, general communications, administration and quality control. Mr. Denkowski has over 30 years of industry experience. Offshore he has worked in Southeast Asia, the Middle East and West Africa for Smedvig Asia, Santa Fe and GlobalSantaFe. Onshore Mr. Denkowski has worked for GlobalSantaFe as an International Employment Manager, for Transocean as the North American Employment Manager, and as the Global Training & Development Manager for Frontier Drilling. While with Frontier Drilling Mr. Denkowski was a member of the IADC Training Committee and the Chairman of the IADC Competency Assurance subcommittee. He has a BS degree in Earth and Mineral Science from Pennsylvania State University.

7. **Svein Anders Eriksson, Head of Section, Logistics and Emergency Preparedness, PSA**

Svein Anders holds a MSc degree in Mechanical engineering (1979) and a BSc degree in Business Administration and Economics (1996). Prior to working for the Norwegian Petroleum Directorate (NPD) and Petroleum Safety Authority Norway (PSA), he was managing director of Commitment Partner, a company providing a wide range of products and services to the industry related to industrial asset management and maintenance optimization. He has 23 years of experience from in the oil and gas industry including exploration, development and production experience from Mobil Oil Inc., Statoil and BP Norway. Since 2004 he has been head of the Logistics and Emergency Preparedness section at the PSA. His areas of responsibilities include diving operations, lifting operations, emergency preparedness and security. He is PSA's standardization coordinator and represents PSA at the petroleum sector board of Standard Norway (the national standardization institute of Norway).

8. **John Gale**, Director of Standards and Rulemaking for the Office of Pipeline Safety in the Pipeline and Hazardous Materials Safety Administration (PHMSA) of the Department of Transportation (DOT)

The office John is responsible for plans, develops and manages the Federal Safety regulations for the transportation of hazardous liquids and natural gas by pipeline. John's Office is also responsible for the management of Special Permits and State Waivers issued by PHMSA, the two Technical Advisory Committees that support OPS, the issuance of advisory bulletins and the issuance of interpretation on the Pipeline Safety Regulations. John has served in that capacity since June 2008.

John began his public service career with PHMSA's Office of Hazardous Materials Safety (OHMS) in 1984, working in its regulatory development office since 1988. He became the Chief of OHMS's Standards Development in 2003. In this position John was responsible for helping produce and maintaining a national and international regulatory program for the safe and secure transportation of hazardous materials, harmonizing domestic standards with international standards, and providing guidance in compliance and enforcement of these standards. The safety standards developed in the OHMS regulatory program impact a number of industries, including aviation, chemical, import and export, maritime, disabled community, traveling public, trucking and rail, and electronic (e.g., batteries).

A lifelong DC native, John now resides in Fredericksburg, VA. John is a father of two boys, a history buff, enjoys playing golf with his friends and family and is passionate about his local professional sport teams.

John received his Bachelor of Arts degree from the Catholic University of America in 1988.

9. **Roland Goodman**, Manager, Upstream Standards for the American Petroleum Institute

Roland is the Manager of Upstream standards for the American Petroleum Institute in Washington, D.C., whose group is responsible for approximately 300 standards covering various types of exploration and production equipment, including onshore and offshore operations. Additionally, he staffs the API Subcommittees on Drilling and Production Operations and Offshore Structures.

Roland has been with API for 19 years and has a bachelor of science degree in Industrial and Systems Engineering from the University of Southern California.

10. **Holly Hopkins**, Senior Policy Advisor in Upstream and Industry Operations of the American Petroleum Institute

In her current role with API, she staffs the Drilling and Production Operations Subcommittee including Upstream Safety, and staffed two of the four Joint Industry Task Forces post-Macondo, the Offshore Equipment Task Force and the Subsea Well Control and Containment Task Force.

Prior to joining API Holly was a policy consultant to the Consumer Energy Alliance (CEA), providing expert advice and guidance to CEA members regarding the Executive Branch, specifically the Department of the Interior and the Minerals Management Service.

From August 2001 to January 2009 Holly worked for the US Department of the Interior in several capacities. Most recently she served as the Chief of Staff to the Minerals Management Service (MMS). Holly also served as MMS Liaison to the Assistant Secretary, Land and Minerals Management and as Special Assistant to the Deputy Secretary. Prior to working for the Interior Department she worked as a policy assistant at National Environmental Strategies.

11. **Alf Reidar Johansen**, Mechanical Engineer and Standards Manager for OGP

- Det Norske Veritas 1968-1984 for ship and offshore certification projects.
- Seconded to Burns & Roe, New Jersey, US, 1972-73 as Quality Engineer for nuclear power plants.
- DNV Houston, inspector, offshore certification projects 1973-74.
- Held various positions with a number of projects in Saga Petroleum, Norsk Hydro and StatoilHydro till retirement in 2008.
- Member of OGP Standards Committee from 1986, chairman 1993-2008. Actively engaged in the restarting ISO/TC67 in 1989. NORSOK Standards project manager 1996-98.
- Now works as OGP Standards Manager since 2008.

12. **Greg Kusinski**, DeepStar Director and Chevron Senior Advisor to DeepStar

Greg Kusinski serves as Director of DeepStar® and is Chevron Senior Advisor to that organization. DeepStar is a Global Deepwater Technology Development Consortium managed by Chevron. In addition, he is a member of Chevron Deepwater Technology Management Team and Chevron Civil, Structure and Marine Engineering Unit Leadership Team. Since 1998 he has worked in various corporate capacities focusing on technology development, acceleration, commercialization and implementation. During a portion of this time he was responsible for technology development at a startup company that commercialized new technology licensed from Lawrence Berkeley National Laboratory. Dr. Kusinski received a degree in engineering from AGH University, Krakow, Poland and went on to earn B.S., M.S. and Ph.D. in Materials Science and Mineral Engineering from University of California at Berkeley where he also completed the Management of Technology program. Dr. Kusinski currently serves on several advisory boards and is pursuing an Executive MBA from Rice University.

13. **Lisa Long**, Director, Office of Engineering Safety, OSHA Directorate of Standards and Guidance

- OSHA Safety Engineer, PSM Responsibilities 2007-2011
- US Chemical Safety Board, Lead Investigator, 2000-2007
- Rhodia, Process Engineer, Production Manager, 1997-2000
- FMC Corp, Process Engineer, Production Manager, 1990-1997
- BS Chemical Engineering, Virginia Tech 1990

Lisa is currently the Director of the Office of Engineering Safety at OSHA where she works on standards and guidance for issues related to engineering. Prior to this position, Lisa was a Safety Engineer in OSHA's Directorate of Enforcement specializing in process safety. Before coming to OSHA in 2007, Lisa worked for the US Chemical Safety Board for 7 years investigating major chemical accidents. Prior to that, Lisa had ten years of experience in the chemical industry working at several different plants in process engineering and production management. Lisa holds a B.S. in Chemical Engineering from Virginia Tech.

14. **Kirk Malstrom**, Petroleum Engineer for BSEE

Kirk Malstrom most recently served as the Regulations Development Section Chief in the Office of Offshore Regulatory Programs for BSEE. Kirk started working for the Department of Interior's Minerals Management Service in 2004 as a Petroleum Engineer. His experience within the Department includes assessment, development, and promulgation of OCS regulations. He has also been involved with industry standards development, Joint Industry Projects as a steering committee member, and incident investigations. Recently Kirk served as a member of the MMS/USCG Joint Investigation Team investigating the Deepwater Horizon event. Kirk received M.S. and B.S. degrees in Petroleum Engineering from Montana Tech.

15. **Dr. Robert W. Middleton**, Deputy Chief, Office of Offshore Regulatory Programs Bureau of Safety and Environmental Enforcement, U.S. Department of the Interior

Bob Middleton currently serves as Deputy Chief of the Office of Offshore Regulatory Programs in BSEE. He assumed that position in May 2011. From 2004 until 2011, Bob served as Director of the Office of Indian Energy and Economic Development, in the Office of the Assistant Secretary for Indian Affairs, where he worked with numerous tribes on the development of renewable and conventional energy resources on Indian lands. From 2001 to 2004, Bob served as the Director of the White House Task Force on Energy Project Streamlining. The White House Task Force was a recommendation in the President's National Energy Policy and was instituted by Presidential Executive Order 13212. Prior to joining the Task Force, Bob served for 9 years as Chief of Staff for the Minerals Management Service. During his 23-year career in the Department of the Interior, he has had the opportunity to participate in a number of high-profile projects related to energy and environmental issues. He was the project manager for the Department of the Interior's Hungary Initiative in the early 1990's, where he led development of a Hungarian government agency to manage state-owned mineral activity in a free-market economy. He also initiated environmental training programs for natural gas development in Western Siberia, Russia and was a member of a U.S. delegation working with the Bangladesh government to address management of their onshore and offshore natural gas resources. Bob's education is in Marine Biology and he received his Masters and Doctorate degrees from the College of William and Mary in Williamsburg, Virginia.

16. **Doug Morris**, BSEE Chief of Offshore Regulatory Programs

As Chief of Offshore Regulatory Programs, Mr. Morris is responsible for developing and maintaining up-to-date regulations, policies, standards and guidelines for best available and safest practices that govern industry's offshore operations nationwide and maintains oversight of the bureau's compliance activities and assures appropriate and effective enforcement actions.

Mr. Morris comes to BSEE most recently from the Energy Information Administration where he initially served as Director of the Reserves and Production Division and was subsequently responsible for the Oil and Gas Supply & Financial Statistics Team. Prior to joining EIA, Morris was a member of the American Petroleum Institute's executive staff where he served as the Group Director for Upstream and Industry Operations. Before joining API, he worked as a petroleum engineer with MMS and with private industry.

17. **Dan Mueller**, Cementing Specialist for the ConocoPhillips Global Wells - Drilling Engineering and Technology Group in Houston

Mueller is responsible for supporting the well cementing activities for the global drilling operations of ConocoPhillips. Dan has 35 years of cementing experience having worked in cementing operations, technical sales, research and applied technology. Dan serves as the Chairman of API CSOEM, is a member of API GISC and the API-OGP International Standards Task Force. Dan is also past Chairman of API SC-10 (Well Cements) and the API Monogram Program Board, and currently serves as Co-Chairman of the API SC-10 Publications Committee. Dan authored API RP10B-3, *Testing of deepwater well cement formulations* and API RP 10-B6, *Methods for determining the static gel strength of cement formulations* and has contributed to the writing of all API cementing material testing and operational standards published in the past 20 years. Mueller was a SPE Distinguished Lecturer in 2000-2001, has published over thirty technical papers and has been awarded ten US Patents. Dan holds a Bachelor of Science degree from the University of Oklahoma (1979).

18. **Andries Otter**, External Standards Manager for Shell

Andries Otter was born in The Netherlands and holds an Engineering degree and PhD in Mechanical Engineering from Twente University in The Netherlands. During his study he spent 3 months in Houston on an internship with Shell.

He joined Shell in 1992 as research engineer. By 1998 he moved into projects and worked as a discipline engineer and project manager in several regions around the globe (USA, Asia/Pacific, Africa and Europe) allowing him to appreciate the global technical work and the great diversity of people and their cultures. One of the highlights was his second stay in Houston from 1998 till 2002.

Andries is currently Shell's External Standards Manager based in Rijswijk, The Netherlands. Today, however, he represents ISO as Chairman of ISO/TC67, the technical committee for equipment and materials for the petroleum, petrochemical and natural gas industries.

19. **Phil Parkes**, General Manager Policy and Legal New Zealand Environmental Protection Authority (EPA)

As a member of the EPA executive team Phil leads the policy, legal, strategy, risk and communications functions. The EPA is New Zealand's national environment regulator with responsibility for chemicals, new organisms, on-shore nationally significant resource proposals, the emissions trading register, and more recently the environmental effects of offshore activities (such as sea bed mining and oil and gas extraction) in the Exclusive Economic Zone.

Phil holds a BSc (Hons) in Environmental Health and an MSc in Environmental Management and has also completed various leadership programmes. Phil has considerable international experience in environmental policy and regulation having worked in NZ central government co-leading the national fresh water reform programme, and in various senior local government regulatory roles in NZ and the UK. Phil emigrated from the UK to NZ in 2007 for a change in lifestyle. He spends his free time mountain biking or snowboarding, taking advantage of the awe-inspiring NZ environment

20. **Enrique Silva Perez**, Lawyer specialized in regulatory policies and antitrust law

As a public official of the Mexican Government, he represented Mexico at the International Labor Organization (ILO), he also has performed the position of Director in the Federal Commission for Regulatory Improvement (COFEMER). On the other hand, he participates as a national expert in regulatory matters with the OECD, in order to design legal and administrative reforms to improve competitiveness of Mexico. On this regard, he has focused particularly in regulation related to opening and development of enterprises by fostering a better coordination between the different government agencies, and among the three levels of government.

As Deputy Director General for Regulation and Normativity of the National Hydrocarbons Commission, he is appointed to design legal and administrative regulation in the Mexican hydrocarbons sector; particularly related to the accomplishment of the Law of the CNH.

21. **Howard Pike**, Manager of Operations for Canada-Newfoundland and Labrador Offshore Petroleum Board

Howard Pike has 35 years of experience in the Oil and Gas industry in Alberta and Newfoundland. He joined the Canada-Newfoundland and Labrador Offshore Petroleum Board when it was first formed in 1986. Howard held the position of Chief Safety Officer from 2000 to 2011.

In his current position as Manager of Operations, Howard is responsible for the administration of well operations approvals, certificate of fitness regulations including monitoring certifying authorities and the Regulatory Query process.

Howard was born and raised in St. John's and has a Bachelor's Degree in Mechanical Engineering from Memorial University of Newfoundland. He is a registered Professional Engineer, a member of the Canadian Standards Association Steering Committee on Offshore Structures, and a member of the Society of Petroleum Engineers.

22. **Jim Raney**, Director, Engineering Global Engineering & Technology for Anadarko Petroleum Corp.

Jim Raney graduated from the United States Military Academy at West Point in 1975. Jim joined Mobil Oil in 1981 after serving 6 years on active duty. He served in a variety of technical and management assignments with Mobil. At the merger of Exxon and Mobil in 1999, Jim served a technical advisor to ExxonMobil Production Company before joining Anadarko Petroleum's International team in 2001. He was called to active duty to support Operation Enduring and Iraqi Freedom soon after 9/11. In 2004, Jim Raney returned to Anadarko and is currently in the Director, Engineering, Global Engineering & Technology.

Jim currently serves as a member of the API Committee on Standardization of Oilfield Equipment and Materials (CSOEM) and Vice-Chairman of the API Global Industry Service Committee (GISC). He is past chairman of the API Committee on Standardization of Oilfield Equipment, API Monogram Program Board and API Protocol for Equipment Rated above 15,000 psi Committee (TR PER15K-1).

23. **Josh Reynolds**, U.S. Coast Guard

CDR Reynolds graduated from the CG Academy in 1993. He spent the first part of his career in shipboard engineering sailing and repairing CG ships. Later he obtained his master's degree in electrical engineering and joined the CG Marine Safety Technical Program. His work in this program has included plan review, inspection and standards/regulatory development for commercial ships and offshore units. He is currently assigned in the Coast Guard Office of Design and Engineering Standards in Washington DC, where he is actively involved in rulemaking and policy projects for OCS units. Beginning summer 2014, he will be assigned to the Eighth Coast Guard District Prevention Division in New Orleans, LA.

24. **Brian Salerno**, BSEE Director

Brian Salerno was sworn in as the Director of the Bureau of Safety and Environmental Enforcement on August 26, 2013. He is responsible for promoting safety, protecting the environment and conserving resources through the vigorous regulatory oversight and enforcement of offshore operations on the U.S. Outer Continental Shelf.

Prior to his appointment as Bureau Director, Salerno served as the U.S. Coast Guard's Deputy Commandant for Operations where he was responsible for establishing and providing operational strategy, policy, guidance and resources as needed to meet national priorities for U.S. Coast Guard missions, programs and services. Previous Washington, D.C.-based assignments included serving as the Assistant Commandant for Marine Safety, Security and Stewardship, Assistant Commandant for Policy and Planning, and Director of Inspections and Compliance.

Salerno was commissioned as an ensign in the U.S. Coast Guard in December 1976 after attending Officer Candidate School. Over the course of his 36-year active duty career, Salerno attained the rank of Vice Admiral, serving predominantly within the U.S. Coast Guard's marine safety program. His field assignments included commanding units in Boston, MA and San Juan, PR, in addition to other assignments in Baltimore, MD; Port Arthur, TX; Portland, ME; and as the marine safety adviser to the Panama Canal Authority.

Salerno is a 2000 graduate of the U.S. Army War College, with a Masters in Strategic Studies. He is also a graduate of the Naval War College nonresident program, and holds a Master's Degree in Management from the Johns Hopkins University. He is licensed as a master of small passenger vessels.

25. **J. Robert Sims Jr.**, Senior Engineering Fellow with Becht Engineering Co., Inc.

He is a recognized authority in risk-based technologies, high pressure equipment, mechanical integrity evaluation and Fitness-For-Service analysis, including brittle fracture analysis. Prior to joining Becht Engineering in 1998, he worked for more than thirty years with Exxon (now ExxonMobil), the last ten years as a pressure equipment specialist with worldwide responsibility for standards and improving equipment integrity. He developed risk based decision-making tools and led multi-disciplinary teams in conducting numerous risk-based reviews of Inspection and maintenance plans and turnaround work lists. He also led technology development in the area of flaw evaluation. Mr. Sims is currently the President-Elect of ASME and is past Senior Vice President for ASME Standards and Certification, past Vice President for Pressure Technology Codes and Standards, past Chairman of the Pressure Technology Post Construction Committee and was a member of the ASME Board of Governors from June 2010 to June 2013. He is an ASME Fellow and is the recipient of the Melvin R. Green and the J. Hall Taylor Codes and Standards Medals as well as a Dedicated Service Award. He represented the Board of Governors on the ASME Presidential Task Force on Response to Japan Nuclear Power Events. He has more than 30 publications and two patents and is a frequent speaker and chairman in technical forums.

26. **Alan Spackman**, Vice President of IADC's Offshore Division

Mr. Spackman joined IADC in 1991 and is now Vice President of IADC's Offshore Division. His responsibilities with IADC involve participation in many industry standards setting committees and responding to numerous international regulatory proposals as well as those at national and state levels. He serves as IADC's principal representative to:

- The International Maritime Organization (IMO), a specialized agency of the United Nations dealing with maritime safety and environmental issues;
- The International Seabed Authority, a specialized agency of the United Nations with jurisdiction over activities on the seabed in areas beyond national jurisdiction; and
- The International Standardization Organization's Technical Committee 67 on standardization in the Petroleum and Natural Gas Industries.

Mr. Spackman is also a member of the Shipping Coordinating Committee, which advises the U.S. Department of State on matters relating to Shipping and the Oceans. He is a 1970 graduate of the United States Coast Guard Academy and received his Masters degree in Naval Architecture and Marine Engineering from the University of Michigan in 1975.

27. **Dr. Eric van Oort**, Professor at University of Texas

Dr. Eric van Oort holds a PhD in Chemical Physics from the University of Amsterdam. He joined Royal Dutch Shell in 1991 and has spent 20 years with Shell in a variety of technical and managerial roles, starting out as a research scientist in The Hague and ending his career at Shell last year as Wells Performance Improvement and Onshore Gas Technology manager in Houston. He joined UT Austin in early 2012 to return to his passion for teaching and R&D as B.J. Lancaster Professor in Petroleum Engineering. He is also one of the founders and current chairman of the board of directors of Genesis RTS, a company specializing in real-time drilling, completion and production technologies, and owns his own consulting company. His interests include: deepwater well construction, drilling automation, real-time operations centers and remote command & control, drilling optimization & NPT/ILT mitigation, rock-fluid interactions and wellbore geomechanics, drilling fluid design, zonal isolation, fit-for-purpose rigs and well manufacturing, hydraulic fracturing and associated water management.

28. **Amy White**, Chief of the Regulations and Standards Branch for BSEE

Amy oversees the development of regulations related to the exploration and production of oil and natural gas on the Outer Continental Shelf. She has nearly 17 years of experience with BSEE. Before becoming Branch Chief she served as a Petroleum Engineer in the Regulations and Standards Branch, focusing on developing regulations covering exploration and production of oil and gas on the OCS and the development of renewable energy resources on the OCS. Amy coordinated the development of key regulations based on recommendations from Department of the Interior reports in response to Deepwater Horizon. Amy was the primary author of regulations to allow for the development of renewable energy resources and alternate energy uses on the OCS. She previously served as a Petroleum Engineer in the Technology Assessment and Research Branch where she managed research projects related to human factors. She has a BS in Petroleum and Natural Gas Engineering from West Virginia University.

29. **Charlie Williams**, Executive Director – Center for Offshore Safety

C.R. (Charlie) Williams II was named Executive Director for the Center for Offshore Safety (COS) in March 2012. Charlie recently retired from Shell as Chief Scientist after a 40 year career. He is a mechanical engineering graduate of the University of Tennessee and Professional Engineer. Charlie serves on the US Department of Interior OESC Federal Advisory Committee and the COS Board. He has testified and presented extensively on Safety Management, drilling, drilling safety, and technology - including at the Center for Strategic and International Studies. Charlie previously chaired the Joint Industry Task Force - Subsea Well Control & Containment & the US BSEE/Argonne Labs Workshop – Effects of Water Depth. Charlie is a 35 year member of the Society of Petroleum Engineers and API and former Chairman of the API Executive Committee on Standardization of Oilfield Equipment and the API General Committee on Special Programs & Industry Services. Charlie served on the Marine Well Containment Company Board and the Marine Well Containment Project Operating Committee. His recognition includes receiving the API Citation for Service, the US Department of Interior - Corporate Citizenship Award, and the US Offshore Operators Committee Recognition Award.

30. **Mia Zager**, General Manager Technical Standards for Shell

Mia Zager is currently the General Manager Technical Standards for Shell. Her team is responsible for maintaining Shell's global Design and Engineering Practices (DEPs).

Mia is a graduate of The University of Tennessee with a BS in Mechanical Engineering, and an MS in Engineering Management. Mia began her career with Exxon as an Upstream Facilities Engineer supporting the South Texas Division and she also worked nine years for Eastman Chemical. Mia joined Shell in March 2001 as a Rotating Equipment Engineer at Deer Park. During her tenure at Shell she held various rotating equipment engineering roles including Mechanical Engineering Manager for the Deer Park Site (Chemicals and Refining) and Regional Engineering Manager for Rotating Equipment for the Americas Region. In July 2012 she was appointed Technical Standards General Manager.

Mia is a Professional Engineer registered in the State of Tennessee with 23+ years of experience supporting the Oil, Gas and Petrochemical Industry. She also serves as the API Global Industry Services Committee Chair.

Personally, Mia enjoys spending time with her husband, Heinz, and their daughters Madelyn Rose (8 yrs) and Rylie (6 yrs). Her family enjoys travelling and has recently settled into their new home in The Netherlands.